Hab. Male, Watan, Bhamo District, 3rd April; female (with blue tail-feather), Sinlum-kaba, Bhamo District, 27th April; second female, Mongwai, Bhamo District, 12th April.

I propose calling this beautiful bird after Sir Herbert Thirkell White, Lientenant-Governor of Burma.

## Urocichla kauriensis, sp. n.

Adult male. Very like U. reptata (Bingham), but the chest and sides of the breast are of a more rufous-brown, and the middle of breast and belly is distinctly spotted with white.

Total length about 3.7 inches; culmen 0.5 ; wing 1.8 ; tail $1 \cdot 2$; tarsus 0.75 .

Iris dark red ; bill dark horn-colour ; legs light brown.
Adult female. Similar to the mate, but with the wings less rufons and of a more olive-brown.

Hub. Watan, Bhamo District, Upper Burma.
The above-mentioned specimens were a pair and were shot whilst building their nest.

## Urocichla sinlumensis, sp. n.

Adult male. Easily distinguishable from U. reptata, Bingham, and the above specics ( $U$. kouriensis) by having the chin and throat mostly white, slightly mottled with brownish; the feathers of chest, sides of the breast, and flanks of a more olive colour, conspicuously spotted with white and tipped with black.

Total length abont $4 \cdot 1$ inches; culmen 0.45 ; wing $1 \cdot 9$; tail 1.9 ; tarsus 0.75 .

Iris reddish-brown; bill black; legs brownish.
Hab. Sintum-kaba, Bhamo District, Upper Burma.
Fairly plentiful in the dense undergrowth near water.

XX1X.-Notes on the Forficularia.-X1II. A Revision of the Brachylabide (Isolabida). By Madcolm Burr, B.A., F.E.S., F.L.S., F.Z.S., F.G.S.

Dohrn (Stett. ent. Zeit. xxv. p. 292, 1864) proposed this genus for the following species:-mauritanica, Lucas ; maritima, Bon.; angulifera, Gerst.; chilensis, Blanch.; and modesta, Géné-distinguishing it from Forcinella ( $=$ Anisolabi.) by the presence of lateral tubercles on the second and
third abdominal segments. This character is insufficient to justify the separation of a genus, and accordingly Scudder (Proc. Bost. Soc. N. H. xviii. p. 290, 1876) sank Brachylabis, as maritima is the type of Forcinella ( $=$ Anisolabis), from which mauritanica cannot be generically separated. But Scudder had not seen chitensis, Blanch., or he would have at once recognized its difference from maritima, though he knew and described under the genus Cylindrogaster the species nigra, which is now known to be a true Brachylabis. ln 1883 de Bormans (Ann. Soc. ent. Belg. xxvii. p. 6t) separated Brachylubis, Duhrn, for chilensis, which he made the type, and punctata, Dubr. Verhoeff did not know any of the six described species of Brachylabis when he erected his family Isolabidre for his three genera Isolabis, Ctenisolabis, and Leptisolabis, all from the Ethiopian Region (SB. Ges. naturf. Fr. Berlin, 1901, no. 1, p. 10) ; but three years later (Arch. f. Naturg. 1904, Bd. i. p. 119) he noted the resemblance between the Isolabidæ and Brachylakis, though he had not seen a single specimen of the latter. He doubted the inclusion of $B$. chilensis in the Isolabidæ, but suggested that $B$. bifoveolata was a true Isolabid.

A comparison of the generic characters shows that the two genera are evidently allied, and a glance at the types in Berlin removed all remaining doubt.

It now became necessary to examine the different species of Brachylubis to see if it were possible to reorganize the system and allocate the various species to the different genera.

Fortmately I possess in my collection the following species:-chilensis, Blanch., nigra, Sudder, malgacha, Burr, punctata, Dubr., from Java, as well as punctata, Bormans, from Burmah, which is a distiuct form.

By using Verhoeff's arrangement of the Isolabidx, it was possible to allocate all these species to what appears to be their true position; thus the riddle of the Isolabidæ, which has puzzled dermapterists since 1902 , is solved.

## Table of Subfamilies and Genera.

1. Segmentum ultimum dorsale of margine postico medio exciso, utrinque lobulo triangulari instructum; corpus fere cyliudricum

Brachylabine.
2. Mesonotumelytris rudimentariis instructum
2.2. Mesonotum elytris rudimentariis nullis.
3. Mesonotum lateribus carinatis

1. Verhneffia, g. n.
3.3. Mesonotum lateribus integris, inter-
2. Brachytatis, Dohrn dum tumido-elevatis.
3. Antennarum segmento 3 elongatn, duplo longiorí quam latiori .... 4.4. Antennarum segmento 3 globulari . 1.1. Seymentum ultimum dorsale of margine postico integro, truncato; corpus plus minus depressum
4. Abdomen of f fortius dilatatum; segmentum ultimum dorsale of $f$ valde angustatum
2.2. Abdomen $\delta$ vix dilatatum; segmentum ultimum dorsale of hand angustatum, transversum
5. Isolabis, Verh.
6. Leptisolabis, Verh.
7. Isolabis, Verh.
8. Leptisolabis, Verh.

Parisolabina.
5. Parisolabis, Verh.
6. Pseurisolalis, g. n.

## Subfamily I. Brachilabine.

'The genus Isolubis, Verh., filling into the same subfamily as Brochylubis, Dohrn, it is neeessary to suppress the name Isolabinz for the subfamily and to substitute that of Brachylabinse.

In the eylindrical form of the body, the few antennal segments, the trimgular head, large eyes, attemated abdomen, excised last dorsal segment, and tapering, slender, arched forceps, it is very well characterized. All the members have a very distinctive appearance and camot be confused with any other group.

## Genus I. Verhoeffia, nov.

Antemne segmento 3 longo, saltem duplo longiori quam latiori, 4 longiori quam latiori, 5 tertium longitudine subequanti; mesonotum lateribus haud carinatis, ad humeros ipsos obtuse fumidoelevatis, elytris rudimentariis instructum, cæteris cum generibus Isolatide et Brachylalide congruet.
As Verhoeff, in characterizing the Isolabidæ, says "Elytra und Fliigel fehlen vollig," I erect this new genus for Brachylulis sjöstodti, Borg (Ark. f. Zool. i. p. 568, 'Taf. xxvi. fig. 2, 1904), from the Cameroons. Borg gives a good figure, and the rudimentary elytra are plainly shown like a Y -shaped suture on the mesonotim. Their form somewhat recalls that of the same organs in Karschiella, in which the chief sign of elytra is a narrow excision in the posterior border of the mesonotum. My friend Dr. Borelli, of Turin, has sent me a specimen from Fernando Po, and I have in my own collection one labelled "Cameroon."

## Genus II. Brachylabis, Dohrn (sensu stricto).

Brachylabis, Dohrn (part.), Stett. ent. Zeit. xxv. p. 292 (1864) ; Borm. Ann. Soc. ent. Belg. xxvii. p. 64 (1883) ; Kirby, Journ, Linn. Soc., Zool. xxiii. p. 518 (1891) ; id. Cat. Orth. i. p. 16 (1904).
C'tentulubis, Verhueff', SB. (its. nat. Fr. Berlin, 190:, 1. 11.

Mesonotum with distinct sharp lateral kecl on each side. Third antennal segment a little longer than broad.

The above chaoacters, ly which Verhoeff distinguishes his genus Ctenisolabis, for the single species Ct. togoensis, are common to B. chitensis, Blanch., which is the type of Brachylabis. Consequently the former genus falls as a synonym.

Brachylabis in its true sense also includes B. nigra, Scudd., B. malgachr, Borm., B. caudelli, sp. n. (vide infirs), B. bifoveoluta, Bol., and B. voeltzkowi, sp. n. (vide infra).

> 1. Pronotum longius quam latius. (Antennarum segmentum :3 quam :2 duplo longius.)
> 2. Mesonotum carinis obtusis usque ad marginem posticum productis; (pedibus infuscatis: species madecassa)
> 1. malyacha, Burr.
> 2.2. Mesonotum carinis acutis ante marginem posticum eranescentibus.
> 3. Statura gracili; genubus flavis: species madecassa
> 2. voeltzkowi, sp.n.
> 3.3. Statura fortiori; genubus infuscatis: species americana meridionalis
> 3. chilensis, Blauch.
1.1. Pronotum vix longins quam latius.
2. Antennarum segmentum 3 vix longins quam latius.
3. Frons punctis impressis postice confluentibus: species africana
4. togoensis, Verh.
3.3. Frons punctis impressis haud cunfluentibus: species peruviana
5. nigra, Scudd.
2.2. Antennarmm segmentum 3 duplo longius quam latius: species asiatica.
3. Pedibus unicoloribus; abdomen segmentum 4 pliciferm
6. biforeolata, Bol.
3.3. Pedibus fulvo-annulatis; abdomen segmentis 3 et 4 pliciferis.
7. caudelli, sp.n.

## 1. Brachylabis malgacha, Burr.

Brachylabis malyacha, Burr, Trans. Ent. Soc. London, 1904, p. 292.
This species has a distinctive appearance; the feet are slenderer and longer than in the other species, the antenne are not so thick, and the keel of the mesonotum is more obtuse. It is recorded from Madagascar and Diego Suarez.
2. Brachylabis voeltzkowi, sp. n.

Statura minori, graciliori; antennæ $1 \overline{5}$ segmentis, apice fulroannulatx; pronotum valde longius quam latius; mesonotum carinis acutis, panllo ante marginem posticum cranescentibus; femora tibixque fusca, apice fulvo-annulata. os.

$$
\begin{aligned}
& { }^{\circ} \text {. } \\
& \text { Long. corporis.......... } 11 \mathrm{~mm} \text {. } \\
& \text { " forcipis .......... } 1 \text {, }
\end{aligned}
$$

Stature small and rather slender. Antennæ with 15 segments: the twelfth is yellow in the type specimen, the rest black; the third segment is quite twice as long as broad, the fourth shorter: the head is small and quite typical.

Pronotum about $1 \frac{1}{2}$ times as long as broad, slightly broader posteriorly than anteriorly; median suture almost obsolete.

Mesonotum with lateral keels sliarp, gently curved, obsolete just before reaching the posterior margin.

Metanotum strongly sinuate posteriorly. Femora and tibia black, each with a yellow ring at the apex.

Abdomen slender, with distinct lateral tubercle on the fourth segment only; last dorsal segment typical, excavate, and attenuate.

Forceps with branches remote at the basc, cylindrical, gently incurved, and crossing at the apex.

## Nossi-Bé (Voeltzkow).

The single male specimen which is my type is out of de Bormans's collection, and was labelled by him "Brachylabis prenctata, Dubr." It differs, of course, from the true punctata in the generic characters, but has a strong resemblance to Br. caudelli from Burmah, which de Bormans confused with B. punctata. It differs from B. caudelli in the longer and narrower pronotum and in the evanescence of the mesothoracic keels.

## 3. Brachylabis chilensis, Blanch.

The literature of this species is quoted by de Bormans and Kirby. It is the largest of the genus and quite different in appearance from $B$. nigra, the only other known American species. It occurs in Chili, Ecuador, and Brazil, but does not seem to be common.

## 4. Brachylabis togoensis, Verh.

Ctenisolubis togoensis, Verh. SB. Ges. nat. Fr. Berlin, 1902, p. 14.
'This species is only known to me by Verhoeff's description and a sketch of the type. It is one of the smaller species and appears to be allied to $B$. nigra.

## 5. Brachylabis nigra, Scudd.

Originally described as a Cylindroyaster, this is a true Brachylabrs. It is easy to recognize, as it is stouter and smaller than the only other known American species, B. chilensis, and has a characteristic greenish sheen; but this is not always preserved in cabinet specimens.

It occurs in northern South America.

## 6. Brachylabis bifoveolata, Bol.

Brachylabis bifoveoluta, Bol. Ann. Soc. Ent. Fr. 1897, p. 285, pl. x. fig. 1.
Bolivar's description is brief but good, and so is his figure. It differs from B. caudelli, the other Asiatic species, in its miform reddish legs, in the more strongly convergent keels of the mesonotum, and in the absence of the glandular folds in the third abdominal segment.

## 7. Brachylabis caudelli, sp.n.

Antennæ nigræ, ante apicem pallido-annulatie, segmento 3 duplo longius quam latius, 5 quam 3 æque longo, fere cylindricis; pronotum subquadratum, haud vel vix longins quam latius; mesonotum carinis acutis leviter arcuatis; femora basi nigra, apice pallida; tibiæ fuscæ, apice pallidiores; forcipis bracchia of basi hand contigua. ot 9.

$$
\begin{aligned}
& \text { Long. corporis.... } 11 \stackrel{\delta^{\circ} .}{\mathrm{mm}} \text {. } 12 \mathrm{q} \mathrm{~mm} \text {. } \\
& \text {, forcipis .... 1.5 , } 1 \text {,, }
\end{aligned}
$$

Small; colour, texture, form, and pubescence typical; antenne with 15 segments, with a pale ring before the apex; segments rather long, third is about twice as long as broad, fourth more than half as long as third, fifth quite as long as third, if not a trifle longer ; body almost cylindrical ; mesonotum with the keels gently bowed at the shoulder and gently converging posteriorly ; femora black, yellow at the apex ; tibiæ brownish yellow, paler towards the apex ; tarsi paler; abdomen typical, third and fourth segments with strong lateral tubercles; forceps stont at the base, not contiguons in the male, contiguous in the female, rapidly tapering, gently arched.

Burma, Tenasserim, and Pegu (Borm.).
Apparently common in Further India. This species was confused by de Bormans with $B$. punctata, which is now proved to be generically distinct; but there is, of course, a strong family likeness thronghout the Brachylabida. It is most like $B$. voeltzkowi in appearance.

## 8. ? Brachylabis geniculata, Montr.

Chelidura geniculata, Montrousier, Amn. Soc. L. Lyon, (n. s.) xi. p. 222 (1864).

Brachylabis geniculata, Borm. Tierreich, Forf. p. 54 (1900).
Montrousier's description is insufficient, but de Bormans
gives a description, with an enquiry as to the sex. I have a coloured sketch of a female by de Bormans which shows distinet straight keels on the mesonotum, so it must apparently be referred to this genus. From this sketch it appears that the third antemal segment is decidedly long.

It may be provisionally ranged in Brachylabis.

## Genus III. Isolabis, Verlı.

Isoladks, Verhoefi, SB. Ges. naturf. Fr. Berlin, 1902, p. 14.
In this genus there are no keels on the mesonotum, thongh the sides are somewhat tumid; it thus differs from Brachylabis.

It differs from Leptisolubis in having the third antemal segment double as long as broad. The forceps of are remote at the base.

It contains at present a single species, I. braueri, Verlı, from Africa, which is only known to me from the description and a sketch of the type.

## Genus IV. Leptisolabis, Verh.

Ieptisolubis, Verh. SB. Gets. naturf. Fr. Berliu, p. 12 (1902).
Brachylabis, Borm. (partim).
This genus agrees with Isolabis in having no keels to the mesonotum, but differs in having the third segment of the antenme very short, only as long as broad. According to Verhoeff, the two African species have the head on a slim neck; but I consider this an individual peculiarity dependent on the position assumed by the organs on drying and analogons to, and as valueless as, the crossing of the forceps att the apex, which is as purely fortuitous as the position assumed by the antenme or legs. The branches of the forceps are near together at the base. In all known species the anteme are ringed with white and the femora and tibie with yellow.

Table of Slecies.

1. Pronotum parallelum
1.1. Pronotum postice dilatatum.
2. Pronotum anteriori margine truncato: species javana
2.2. Margo anterior pronoti in collem brevem productus: species africanæ.
3. Metanotum paullo excavatum ........ 3. usamburana, Verh.
3.3. Metanotum fortiter excavatum ...... 4. theoria, rexh.
4. Leptisolabis philetas, Burr.

Brachylabis philetas, Burr, J. Bombay N. H. Soc. xiv. p. 322, pl. B. fig. 7 (1902).
The description and figure render this little species unmistakable; the transverse depression on the mesonotum is very characteristic.

## 2. Leptisolalis punctata, Dubr.

Brachylabis munctata, Dubr. Ann. Mus. Civ. Gen. xiv. p. 357, fig., 오 (1879) ; id. Tierreich, Forf. p. 53 (1900) (partim) ; nec Burm. Anu. Mus. Civ. Gen. (2) vi. p. 436 (1888) \& loc. cit. xvi. p. 379 (1894).
If we exclude the Burmese specimen taken by Fea, de Bormans's remarks and notes apply to this species. It is quite different from $B$. philetus, but it is impossible to discriminate it accurately from the African species of Verhoeff without a comparison of authentic specimens.

> 3. Leptisolabis usamburana, Verh., and 4. L. theorice, Verh.

Verhoeff suggests that the latter is a subspecies of the former, which is very probable. Both are from German East Africa, but it is unsatisfactory to discuss the species without an examination of the type.

Subfamily II. Parisolabine (Verh. Arch. f. Naturg. 190t, p. 119).

Verhoeff separates this subfamily from the Isolabina by the shining frons, which is thus distinct from the rest of the head, "ithout lines, but with the two impressed points. 'The eyes are only moderately large, separated from the posterior margin of the head by their own diameter; abdomen with a lateral tubercle; second tarsal segment half as long as the third. Forceps of the male remote; tenth abdominal segment truncate at the posterior margin.

## Genus V. Parisolabis, Verh.

This genus is monotypic, the only known species being Parisolabis novce-zeelandice, Verh. (op. cit. p. 120).

Commander Walker has given me a male from New Zealand which I attributed provisionally to this species, but a glance at Verhoeff's types, on the occasion of a Hying visit to the Berlin Muscum, showed me that they are "not like
mine, brown, flat, and broad," in the words of my rough notes taken on the occasion. My specimen is black, not very flat, and by no means broad. On carefully comparing it with Verhoeff's characterization of Parisolabis, I find that it differs in important particulars, and accordingly am obliged to erect a new genus.

## Genus VI. Pseudisolabis, gen. nov.

Corpus minute punctulatum, valde pubescens; pars antica corporis fere cylindrica; ablomen sat depressum : antemne 15 segmentis, 3 cylindrico, duplo longiori quam latiori ; 4 et 5 brevibus, globularibus ; cæteris cylindricis, sat brevibus: caput minus triangulare; pronotum sublatius quam longius; mesonotum carinis nullis: pedes graciles; tarsi longi, segmento 2 elongato: abdomen sat depressum, ante apicem subdilatatum, tuberculis lateralibus nullis, segmentis apicalibus lateribus convexis; segmento ultimo dorsali transverso, haud angustato, margine postico truncato: forcipis bracchia basi remota, basi ipso triquetra, deiude cylindrica, angusta. $\delta^{*}$.
The whole body is finely punctulate and covered with a close yellowish pubescence.

Antennæ with 15 segments, the first long, strongly clavate; second minute, cylindrical ; third cylindrical, long, but not so long as the first; fourth minute and globular, not longer than broad ; fifth longer than fourth, a little longer than broad; the rest gradually lengthening, but none equalling the third in length, rather thick, cylindrical, but the joints distinctly constricted.

Head not sharply triangular, rectangular posteriorly; the occiput punctulate and pubescent; the frons smooth and tumid; the frontal impressions obsolete. Pronotum subquadrate, the anterior and posterior margins parallel and truncate, slightly broader posteriorly than anteriorly and broader than long, a trifle broader than the head; sides straight, gently diverging posteriorly.

Mesonotum transverse, parallel, with no keels.
Metanotum broader than the mesonotum, the posterior margin gently simate.

Prosternum about double as long as broad, parallel.
Mesosternum transverse, posterior margin truncate.
Metasternum transverse, the posterior margin truncate.
Femora rather thick, especially the anterior pair; tibir and tarsi slender, second segment of latter rather long and slender, about half as long as the third, the first about as long as the second and third united.

Abdomen rather depressed, gently dilated about the apical
third and very slightly narrower at the apex itself; last dorsal segment short, transverse, truncate posteriorly ; penultimate ventral segment obtusely rounded; last ventral segment visible as a pair of triangular lobes just protruding.

Forceps remote at the base, triquetre at the base itself, arcuate, tapering and short, $\delta$; $\circ$ unknown.

This genus differs from Parisolabis in being much less depressed and less dilated, and the last dorsal segment is by no means narrowed.

It approaches more nearly to Anisolabis than does Parisolabis, and represents the transition between the Bracliylabidæ and the Anisolabidæ.

In the form of the abdomen and last dorsal segment Pseudisolabis approaches Anisolabis, but the antenne have fewer segments, the second segment of the tarsi is longer, the posterior margin of the metasternum is scarcely produced between the posterior coxæ, and the mesosternum is shorter, relatively much broader, and truncate posteriorly.

## 1. Pseudisolabis walkeri, sp. n.

Statura mediocri: rufo-niger ; femoribus fulvo-nigris, tibiis tarsisque nigris : forcipis bracchia basi valde remota, in tertia parte basali triquetra, sat valida, sensim divergentia; dein subito incurva, cylindrica, recta, attennata. ©

| Long. | 11.5 |
| :---: | :---: |
| " forcipis |  |

Of medium size; deep reddish black; femora yellowish black, the tibie and tarsi darker. Forceps triquetre and gently diverging in the basal third, then rather abruptly bent inwards, straight, cylindrical, tapering, an l converging. ठठ.

New Zealand, Te Aroha, January 1902.
This interesting specimen was taken by Commander J. J. Walker, R.N., H.A., F.E.S., who kindly gave it to me, and I have the pleasure of dedicating it to him.
XXX.—Descriptions of new African Heterocera. By George T. Bethune-Baker, F.L.S., F.Z.S.
My measurements are taken by doubling the distance from the centre of the thorax to the apex of the wing.

## Eupterotidæ.

## Paradrallia, gen. nov.

Palpiminute, hairy. Neuration: primaries with vein 2 from

